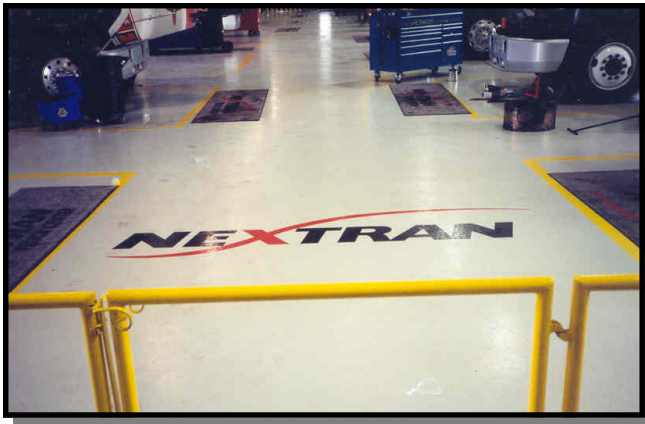


FT830 Trowel Down Decorative Quartz System



DESCRIPTION

FT830 Trowel Down Decorative Quartz System is a 1/8" to 3/16" three component system that includes 100% solids epoxy resurfacing system and color quartz aggregate and Chemical Resistant topcoat. This attractive flooring system is used wherever aesthetics, ease of cleaning and slip resistance are major considerations.

ADVANTAGES

- FT830 provides excellent resistance against chemical spills while providing a decorative, seamless surface without joints to harbor bacteria or dirt. Formulated with excellent resistance to a wide variety of harmful chemical spills while also possessing good UV resistance
- Decorative
- VOC Compliant
- Impact Resistant
- Available with Floroseptic additive
- Solvent-free/Odorless

RECOMMENDED USES

FT830 Trowel Down Decorative Quartz System can be used wherever an architectural decorative floor is preferred. Suitable for many commercial and industrial applications requiring ease of cleaning and wear resistance. FT830 is ideally suited for educational, health care, kennels, pharmaceutical, showers and other facilities where sanitation and appearance are top priority.

GENERAL DATA

Application Temperature & Humidity	55° —90° F @ 85 RH
Percent Solids By Weight	100%
Cure Rate @ 70 ° F	12 Hours

TEST / PHYSICAL PROPERTIES

Test	Test Method	Typical Value
Compressive Strength	ASTM C-579	10,000 P.S.I.
Tensile Strength	ASTM C-2307	3,339 P.S.I.
Flexural Strength	ASTM D-790	7,770 P.S.I.
Indentation MIL-D-3134F		No Indentation
Shore A/D		100/77
Percent Elongation	ASTM D-2370	6%
Water Absorption	ASTM C-413	0.2%
Bond Strength	ACI Committee #503 pg. 1,139-1,141	0.08 mg max
Abrasion Resistance CS-17 wheel, 1,000 gm load, 1,000 cycles	ASTM D-4060	105mg
Water Resistance, Fed. Test. Std. #141, Method 6011	ASTM D-1308	No Effect
Salt Water Resistance, Fed. Test. Std. #141 Method 6061	ASTM B-117	No Effect
Thermal Shock, 100 Cycles of Alternate Freezing and Thawing		No Deterioration or Loss of Adhesion
Boiling Water Resistance (1 Hour Continuous Exposure)	ASTM D-2571	No Effect

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Product Information

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LIMITATIONS

This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the coating. Do not apply to floors previously treated with curing and parting compounds or other coatings unless they have been completely removed by chemical or mechanical means. Do not use on vinyl, asphalt, rubber, glazed tile, paving brick, quarry tile, Mexican tile, or similar materials.

Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or FloorTech® Technical Service.

Sealed surfaces may discolor under tires due to tire plasticizer migration.

If the product is to be applied in or near areas containing food stuffs, they should be removed before the application and until the coating has fully cured and all vapors have dissipated.

Do not thin this product. Addition of thinners will slow the curing times and reduce the ultimate coverage properties of this product. Critical window for the application of second coat times will also be affected.

SYSTEM SPECIFICATION

FT830 Trowel Down Decorative Quartz System is installed by trowel down method. The system is composed with the following:

- Primer: FT330 / FT360
- FT420 Trowel Down Quartz Slurry
- Grout coat of FT420 Crystal Clear Top Coat
- Optional Top Coat

For additions, chemical and abrasion resistance requirement, system may be topcoated with FT500 series Chemical Resistant Urethane.

FLOOR INSPECTION

The area to be surfaced must be a minimum of 60 days old, clean, sound and above 60° F.

The surface must be checked to determine if a curing compound and/or coating is present.

Moisture content of all concrete surfaces to be coated and/or resurfaced must be checked to determine the presence of excess moisture or moisture vapors.

Moisture Test Options:

1. *Polyethylene Sheet Method*—apply 2x2' plastic sheet to the surface to be tested with duct tape. After 24 hours, check underside for presence of moisture.
2. *Delmhorst Moisture Meter*—this is an electrical resistance test to measure moisture content. Two holes are made in the area to be tested and two probes are inserted and a measurement is taken. A reading of >20 indicates the presence of moisture.
3. *Calcium Chloride Test*—Most accurate to measure vapor transmission by absorbing anhydrous calcium chloride. A premeasured lid is placed under an airtight cover for 60 hours after which the lid containing calcium chloride is measured and the increase in weight is a measurement expressed in pounds of water per 1,000 sq. ft. A reading above 3 indicates the presence of moisture.

SURFACE PREPARATION

All oils, grease, curing compounds, laitance and surface contaminants must be removed first. If surface has been previously coated and testing indicates that it must be removed to provide a suitable profile for proper adhesion, your FloorTech® Sales Representative will discuss feasible chemical/mechanical removal methods with you.

The proper profile recommendation is important because it determines the thickness of the system, bond strength and wearing characteristics of the system used. A thin mil protective coating will require a tightly textured low profile to maximize bond and provide flatness to maximize durability and reflectivity.

The International Concrete Repair Institute (ICRI) Guideline No. 03732 has set forth a numerical, surface profiling indicators to be specified for various coating systems — from CSP 1 (Concrete Surface Profile) for 0—3 mil coatings to CSP 9 for >125 mil for synthetic overlays.

FloorTech® adheres to the surface profile guidelines on all coating systems as established by ICRI.

ICRI Guidelines

	Dry Mil	Coating System
CSP 1, 2 & 3	0—3 Mils	FT300/500 Series
CSP 2, 3 & 4	4—10 Mils	FT500 Series
CSP 4, 5 & 6	40—125 Mils	FT400 High Build Series
CSP 5, 6, 7,		

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INSTRUCTIONS

Once the surface profile, temperature, moisture and dust free status has been reached, a final inspection of the concrete should be made for voids, cracks, holes & other imperfections. These should be smoothed out by using FT 290 Grout/Crack Filler.

PRIMING is recommended to improve bond & reduce out gassing.

FT 330 Solvent Base Primer

FT350 High Build Primer may be used to fill small voids and hairline cracks.

FT 360 is a flexible epoxy used as a flexible, waterproof and stress reducing primer.

*Note: If waterproofing membrane is required, apply FT370 after priming.

FT370 Similar to FT 360 except designed for use as a heavy duty water proofing film.

MORTAR

Mix FT420 A and B separately for three minutes with a low speed mixer.

Mixing—Add 4 part FT 4200A & one part FT 420 B together for three minutes. In 10 gal. Mixer, pour in mixed FT420 & 5 gal. container (60) lb. of coarse Estes quarts granules & 2 lb. of FT003 Filler.

Once mortar is thoroughly mixed, immediately dump on the concrete, level and hand trowel/power trowel approximately 3/16". Allow material to level and begin evenly seeding quartz into wet mortar to excess or appearance of being dry.

Grout

Once surface has cured, light sand, tack & apply FT 420 Clear High Build grout coat @ an application rate of one gal per 100 sq. ft. on 16 mils.

Seal Coat

Optional FT 560/560S Chemical Resistant Urethane seal coat is available in either gloss or satin finishes. This CRU, is a two part high performance polyester urethane. Is Applied at a rate of 1 gal. per 300 sq. ft. Cure time is 12 hours for light traffic but will require 7 days for maximum chemical resistance.

<u>PRODUCT</u>	<u>MIXING</u>	<u>COVERAGE</u>
Primer		
FT330	1:1	300 sq. ft.
FT340	2:1	200 sq. ft.
FT360	2:1	150/200 sq. ft.
Binder		
FT420	4:1 1 1/4	
FT002	2 lb.	20 sq. ft./Gal.
Quartz T	60 lb./Batch	
Quartz	To excess	.3 lb./sq. ft.
Grout		
FT420	4:1	100 sq. ft.
Seal		
FT560/FT560S	1:1	300 sq. ft.